

WHAT IS CLAIMED IS:

1. A clutch device for a recording/reproducing apparatus, comprising:
 - a central shaft installed on a main chassis;
 - a drive pulley having a cylindrical pulley holder portion, extending therefrom, said drive pulley connected to said central shaft for rotation therewith;
 - driving means operatively connected to the drive pulley for rotating the drive pulley;
 - an gear in order to transmit the power received from the drive pulley 64 to an idler gear;
 - a cylindrical holder unit ascendable/descendible along the central shaft; and
 - a clutch spring placed between the cylindrical pulley holder portion and the cylindrical holder unit for selectively transmitting a power with a certain torque from the drive pulley to the gear in accordance with the rotational direction of the drive pulley;

wherein the clutch spring includes an first contacting portion producing friction by contacting to an surface of the cylindrical pulley holder portion, an second contacting portion producing friction by contacting to an surface of the cylindrical holder unit and a connecting portion connecting the first contacting portion and the second contact portion.

2. The device of claim 1, wherein an outer diameter of the cylindrical pulley holder portion being larger than an inner diameter of the cylindrical holder unit.

3. The device of claim 1, wherein the first contacting portion of the clutch spring is in contact with the inner surface of the cylindrical pulley holder portion, and the second contacting portion of the clutch spring in contact with the outer surface of the cylindrical holder unit.

4. The device of claim 1, wherein the first and second contacting portion of the clutch spring being selectively wound when it is rotated in a certain direction and respectively contacts with the surfaces of the cylindrical pulley holder portion or the cylindrical holder unit.

5. A clutch device for a recording/reproducing apparatus, comprising:

a central shaft installed on a main chassis;

a drive pulley having a cylindrical pulley holder portion, extending therefrom, said drive pulley connected to said central shaft for rotation therewith;

driving means operatively connected to the drive pulley for rotating the drive pulley;

an gear in order to transmit the power received from the drive pulley 64 to an idler gear;

a cylindrical holder unit ascendable/descendible along the central shaft;

a clutch spring placed between the cylindrical pulley holder portion and the cylindrical holder unit for selectively transmitting a power with a certain torque from the drive pulley to the gear in accordance with the rotational direction of the drive pulley;

wherein the clutch spring includes an at least one contacting portion producing friction by contacting to an surface of the cylindrical pulley holder portion or the cylindrical holder unit and a connecting portion generating an elastic force;

a first transmitting path for directly transmitting the rotation of the drive pulley to the idler gear; and

a second transmitting path for transmitting the rotation of the drive pulley to the idler gear through the clutch spring with an certain slip output torque.

6. A clutch device for a recording/reproducing apparatus, comprising:

a central shaft installed on a main chassis;

a drive pulley having a cylindrical pulley holder portion, extending therefrom, said drive pulley connected to said central shaft for rotation therewith;

driving means operatively connected to the drive pulley for rotating the drive pulley;

an gear in order to transmit the power received from the drive pulley 64 to an idler gear;

a cylindrical holder unit ascendable/descendible along the central shaft;

a clutch spring placed between the cylindrical pulley holder portion and the cylindrical holder unit for selectively transmitting a power with a certain torque from the drive pulley to the gear in accordance with the rotational direction of the drive pulley;

wherein the clutch spring includes an at least one contacting portion producing friction by contacting to an surface of the cylindrical pulley holder portion or the cylindrical holder unit and a connecting portion generating an elastic force;

a first transmitting path for directly transmitting the rotation of the drive pulley to the idler gear;

a second transmitting path for transmitting the rotation of the drive pulley to the idler gear through the clutch spring with an regular slip output torque; and

a third transmitting path for transmitting the rotation of the drive pulley to the idler gear through the clutch spring with an specific slip output torque.